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**Table S1.** Coefficients (posterior modes) of (a) fixed and (b) random effects, with 95% credible intervals, of the statistical model of Step 3, which was fitted to the empirical calibration data from Step 1. Compare with Figure 4.

model term	coefficient	credible interval
(a) fixed effects		
$\kappa$ , <i>Casuarina</i> , 4 m	32.584	31.679 – 34.067
$\kappa$ , fig, 4 m	32.843	31.675 – 34.281
$\kappa$ , mixed gallery, 4 m	32.336	31.387 – 33.449
$\kappa$ , paperbark, 4 m	31.391	30.014 – 32.537
$\kappa$ , shrubs, 4 m	34.877	33.708 – 35.996
$\kappa$ , <i>Casuarina</i> , 0.1 m	26.646	25.349 – 27.956
$\kappa$ , fig, 0.1 m	29.017	27.496 – 30.051
$\kappa$ , mixed gallery, 0.1 m	26.766	25.64 – 27.921
$\kappa$ , paperbark, 0.1 m	26.221	24.963 – 27.791
$\kappa$ , shrubs, 0.1 m	28.943	27.583 – 30.032
$\beta$ , <i>Casuarina</i> , 4 m	-0.203	-0.281 – -0.112
$\beta$ , fig, 4 m	-0.341	-0.44 – -0.252
$\beta$ , mixed gallery, 4 m	0.083	0.01 – 0.144
$\beta$ , paperbark, 4 m	-0.205	-0.271 – -0.1
$\beta$ , shrubs, 4 m	-0.23	-0.309 – -0.144
$\beta$ , <i>Casuarina</i> , 0.1 m	-0.438	-0.536 – -0.349
$\beta$ , fig, 0.1 m	-0.606	-0.693 – -0.507
$\beta$ , mixed gallery, 0.1 m	-0.221	-0.3 – -0.144
$\beta$ , paperbark, 0.1 m	-0.403	-0.5 – -0.299
$\beta$ , shrubs, 0.1 m	-0.384	-0.45 – -0.28
$\gamma$	1.099	1.001 – 1.236
(b) random effects		
<i>send</i>	0.341	0.115 – 0.902
<i>receive</i>	0.285	0.071 – 0.759
<i>exchange</i> , <i>Casuarina</i> , 4 m	30.881	25.757 – 36.097
<i>exchange</i> , fig, 4 m	38.522	32.414 – 45.207
<i>exchange</i> , mixed gallery, 4 m	23.404	20.231 – 27.846
<i>exchange</i> , paperbark, 4 m	28.646	23.498 – 34.252
<i>exchange</i> , shrubs, 4 m	28.43	23.376 – 33.122
<i>exchange</i> , <i>Casuarina</i> , 0.1 m	39.895	33.258 – 46.456
<i>exchange</i> , fig, 0.1 m	35.237	29.047 – 41.519
<i>exchange</i> , mixed gallery, 0.1 m	32.783	27.513 – 37.846
<i>exchange</i> , paperbark, 0.1 m	40.639	33.566 – 47.861
<i>exchange</i> , shrubs, 0.1 m	33	28.038 – 39.424
<i>replicate</i>	1.765	1.653 – 1.873
$\varepsilon$ , <i>Casuarina</i> , 4 m	5.938	5.77 – 6.13
$\varepsilon$ , fig, 4 m	4.795	4.683 – 4.968
$\varepsilon$ , mixed gallery, 4 m	11.043	10.806 – 11.365
$\varepsilon$ , paperbark, 4 m	12.206	11.745 – 12.534
$\varepsilon$ , shrubs, 4 m	7.674	7.443 – 7.89
$\varepsilon$ , <i>Casuarina</i> , 0.1 m	4.27	4.134 – 4.391
$\varepsilon$ , fig, 0.1 m	0.368	0.357 – 0.383
$\varepsilon$ , mixed gallery, 0.1 m	2.52	2.454 – 2.598
$\varepsilon$ , paperbark, 0.1 m	1.036	1.006 – 1.074
$\varepsilon$ , shrubs, 0.1 m	1.831	1.77 – 1.877